

PHENIX WEEKLY PLANNING

9/26/2008

Don Lynch

RPC Factory:

Dark Current test stand

design Done, fabricate by 1/1

Storage Racks with humid. Cntrl

design 9/30, fabricate by 1/1

Mu Trigger FEE upgrade:

Rack assembly

North installed, South by 11/15

N&S platforms Fabricate & install

North installed, South by 11/15 (Pearson)

Prep work for platforms (water/elec)

Done

FEE Chasis installation N&S sta's. 1,2&3

North done, South 2&3 done, South 1 by 10/31

FEE water and dry air installation

Station 1,2 & N Done,

Sta. 2&3S by 10/15, Sta 1 south by 11/15

Install Elec cards

Starting 9/15: sta 1N by 9/30, sta 2 N by 10/15, sta 3N by 10/31, S by 11/15

Disassemble station1 scaffold

complete by 10/15

Move CM & MMS North

complete by 10/17

Install S rack cooling & electric

10/ 17 - 10/31

Rack room electronics, etc.

In progress, Complete by 11/15 10/31

Move MMS South

11/3-11/7

Install scaffolding in sta 1 south

12/1

Remove sta 1 scaffolding from south

Testing

Complete by 11/30

Shutdown '08 Schedule

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RPC external review

RPC proptotype installation:

Prep work

move (7) MuID pipes

move gap 5 south cable tray

Rack prep

RPC prototype gas system

Move shielding for installation

RPC prototype cable routing & support

Modify crystal palace & vapor barrier

RPC prototype install

(RPC2 - PHENIX)

(RPC3 - C. Pearson)

Install rack in tunnel south

Replace tunnel shielding/Vapor Barrier

Connect electronics/gas

Install lead absorber

MuTr Decapacitations (Sta. 1&3 S)

Fan Tray maintenance

PC1 west work

Sep. 25

wait for final installation design

In progress complete by Oct.15

In progress complete by Oct. 31

Oct.1 [Pearson]

10/1-10/15

as necesary [Pearson]

1/2 Octants to be ready for inst. by 9/29

Install 10/20-10/30

Install 9/29-10/30

Install by 10/15

After proto RPC3 installed [Pearson]

10/15-11/15

11/10-11/14

Sta. 3 completed 2008 work, more in 2009

Sta. 1: 11/10-11/30

in progress (on going fill-in)

10/20-10/31 (planning is in progress)

9/26/08

Shutdown '08 Schedule, cont'd

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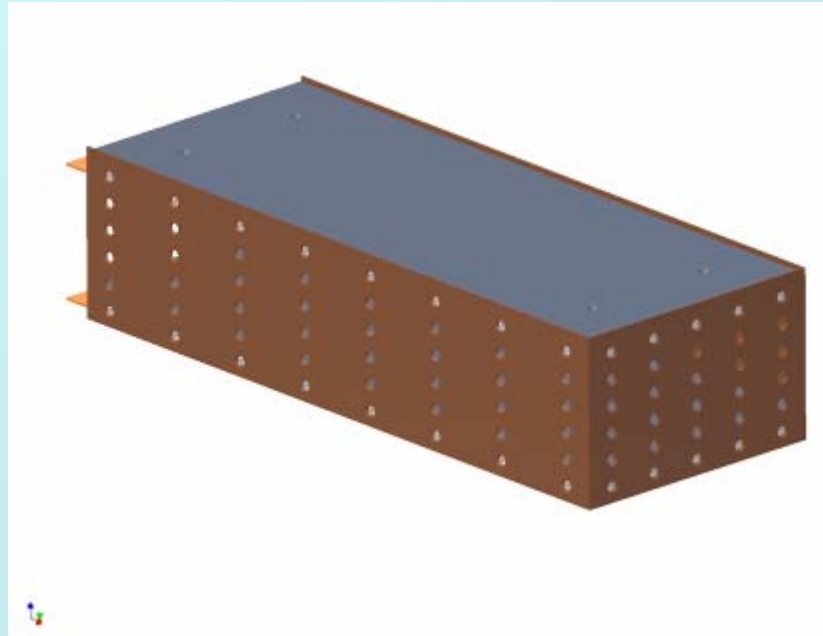
Build new storage crates for scaffolding (Sta 1 & 2/3N)	10/1-10/31
HBD Install	11/3-11/14
DC East?/West Repairs	12/15-1/1
Gas mixing house UPS	complete by 11/30
Remove all inst'n equipment	
Sta 1 (from south)	Remove by 12/1
Sta 2/3 scaffolds	Remove by 12/15
all other testing equipment	Remove by 12/15
Prep for shutdown 2009	
Gap 5 N piping and cable tray re-loc.	Oct. - Dec
Gap 2 N cable tray & crate re-mounts	Not req'd until RPC2 re-instated
Prep for run 9	
Begin run 9 Prep	12/1/09
Install all lampshades	Complete by 11/26
Roll in EC	12/22
Pink/White/Blue sheets	12/29
Install MuID collar	12/30
Close shield wall	12/31
Cryo Start up	1/1/09
Flammable Gas/start shifts	1/11/09
Start physics	1/18/09
End Run 9	6/30/09

Shutdown '08 Schedule, cont'd

Other Work

NCC prototype design support
HBD support
VTX fabrication tooling design
VTX installation design
FVTX design/engineering support

Done? (for now)
as required
11/23-?
Waiting for specs
as required



Shutdown '08 Electrician Work



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1. Run Power to new MuTrgr FEE racks on MMN and MMS. *North done, South by 10/31. Install power feeds to RPC north & south tunnel racks from IR power panels. Done*
2. Install new UPS in Gas mixing house. *By 11/30*
3. Re-wire ToF Rack power distribution bucket in Gas Mixing House. This is to correct minor wiring errors. *By 10/31/08*
4. Install power and signal cable tray (ceiling suspended) for new DCM rack row - north of existing DCM racks. *To Be Scheduled*
5. Assist in signal and LV cable installation for MuTr/ RPC upgrades as necessary. *MuTrgr North Done, MuTrgr South & RPC Prototype to be scheduled*
6. Install 120 volt AC power drops into new control room annunciator alarm rack (rack room). *Work in progress, to be completed by 10/15.*
7. Upgrade power capacity of Central Magnet power distribution for future bridge rack loads.
 - a) Remove existing 15KVA transformer and install 45KVA unit.
 - b) Install new (larger size) power cable from rack room to Central Magnet distribution breaker panels.

Lower priority not required for run 9, to be scheduled when manpower available and operations & projects inconvenience are minimized
8. Walk down PHENIX Electrical Distribution Panels/Breakers and update changes on the electrical one-line drawings. *Complete by 11/30/08.*



**MuTrgr FEE
South Rack**

**Ready to be
installed
after CM
moves north**

Scaffolding Crates

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Existing Crates for Sta 2/3N scaffolds are severely rotted and need to be replaced with weather resistant materials.

Sta. 1 scaffolds do not have storage crates. These need to be built of similar materials. All dimensions of crates are available.

MuTrigger FEE Installation

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Station 1 2 & 3 S
Cooling water and dry
air are done.



LV cable installation in Mutrgr
North rack is done, testing in
progress



MuTrigger FEE South & RPC Prototype Racks

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Work on these racks is in progress

MuTr FEE upgrade status

Tsutomu Mibe (KEK)
for the onsite upgrade team

Status of ADTX board

- Need total 40 boards to cover whole station 1
- First 20 boards arrived at 1008
 - Completed final check up: all passed OK
 - Ready for installation
- Next 20 boards depart Japan in Sep 25
 - Fully tested in Japan
 - Estimated arrival next Tuesday (Sep 30)
- Blank panels for empty slot will be shipped from Japan in Sep. 30



Status of ADTX board (cont.)

- Production of rest of 180 boards are in progress
 - Completed production of base board
 - Another 37 boards will arrive at KEK in Sep 30
 - Trouble getting DAC (MAXIM) for the last 143 boards



LV preparation plan

- Completed checking LV lines
- LV testing started from Wed
- Found inconsistency of wiring between + and GND at chassis and rack
 - Corrected wiring at chassis
- Completed voltage drop measurement
 - voltage drop = 0.2– 1.2 V
- Completed tuning supply voltage
 - Voltage at chassis is in a range of 6.5-7.1V



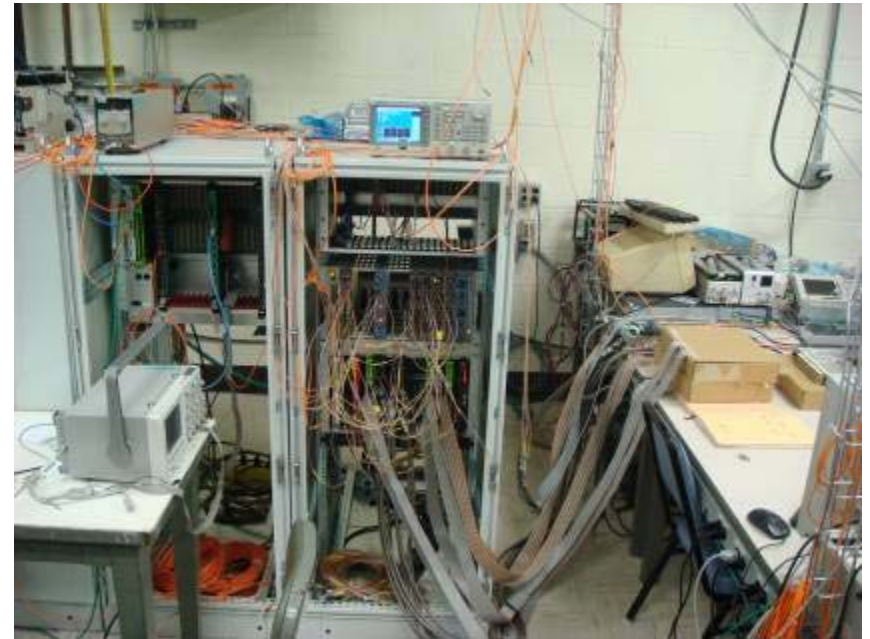
Connecting analog cable to new chassis

- Station 1
 - Completed 14 chassis at station 1 (30 cm cables)
 - Need to use 40 cm cables for 8 chassis (2nd week of Oct).
- Station 2
 - Completed octant 7
- Station 3
 - Completed octant 5 (2 chassis)



Remaining tasks for completion of North station 1

- Infrastructure
 - Beam clock distribution (cabling in progress)
 - Signal cable installation (40 cm cables)
- ADTX boards prep
 - 20 boards are ready to install.
 - Next 20 boards
 - QA
 - Installation
- Chain test
 - Read out by Ad-hoc local DAQ (>1wk?)



(Note: DC East shown below;
West is similar)



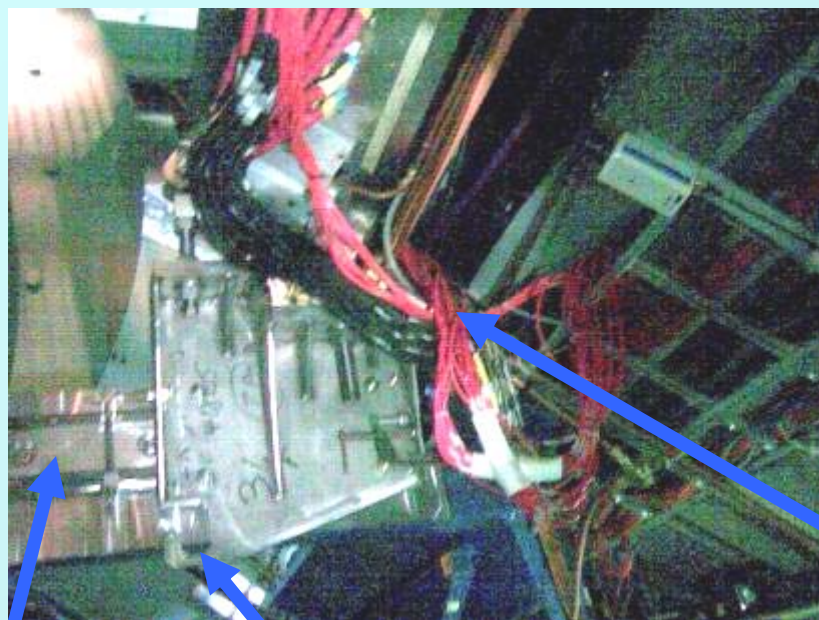
~12"

Electronics repair to be accessed in
this area after DC is moved east



Entire DC must be
moved east ~12"

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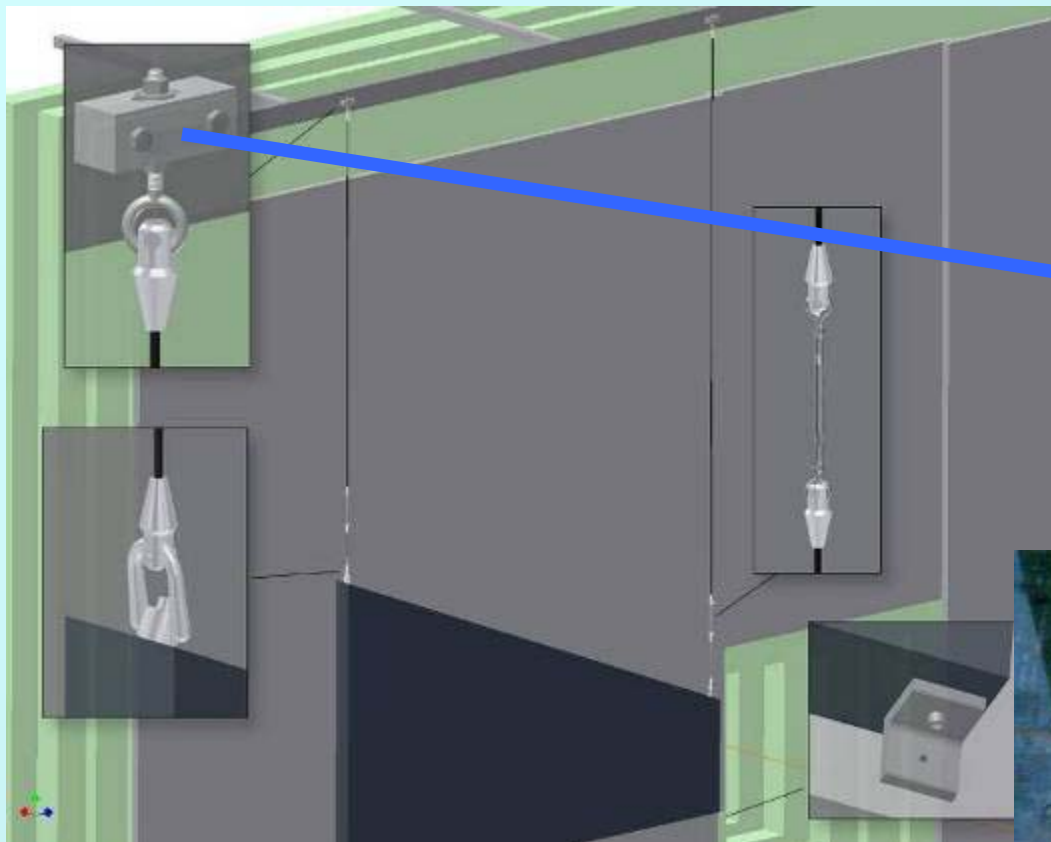
Bearing rails

Translation Bar
(pushing surface) is
placed here



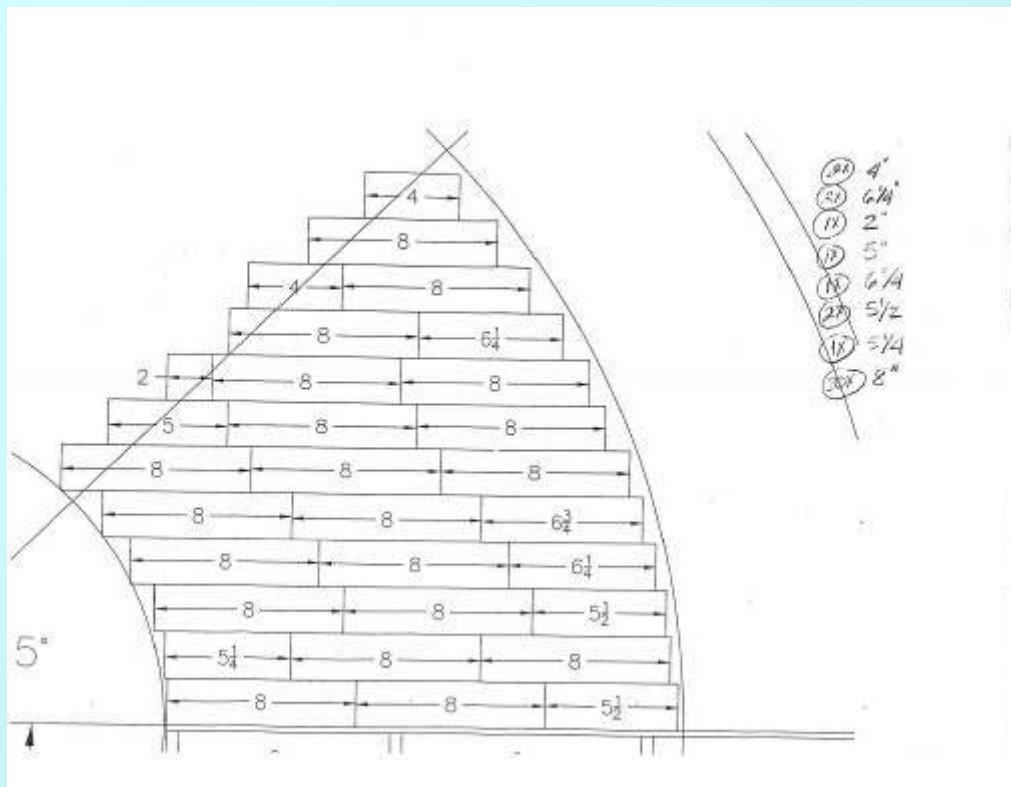
Cabling and piping must be
carefully evaluated and
disconnected or allowed to
travel as appropriate

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RPC Absorber

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We need 80 2x4x8 and 28 2x4xZ, where Z is 13 different lengths of varying quantities between 1-1/2" and 6-3/4"

RFQ placed with CS

J. Scott will deliver 120 2x4x8 rad clean and painted lead bricks, on skid to 1008 by 10/15

Don, Jimmy, Kenny, Carter, John and Mike L. must take TQ-LEAD1 (web course) by 10/15

Lead cutting can be done at CS, then need to be repainted on cut face.

Work permit req'd

RPC2 Prototype Installation



RPC prototypes will be ready for installation 9/29. Final electronics check to be performed over next 2 weeks.



Gap and Module storage plan written and will be made a part of the overall RPC factory plan.



RPC group to dispose of shipping containers and left over equipment to keep storage area uncluttered.



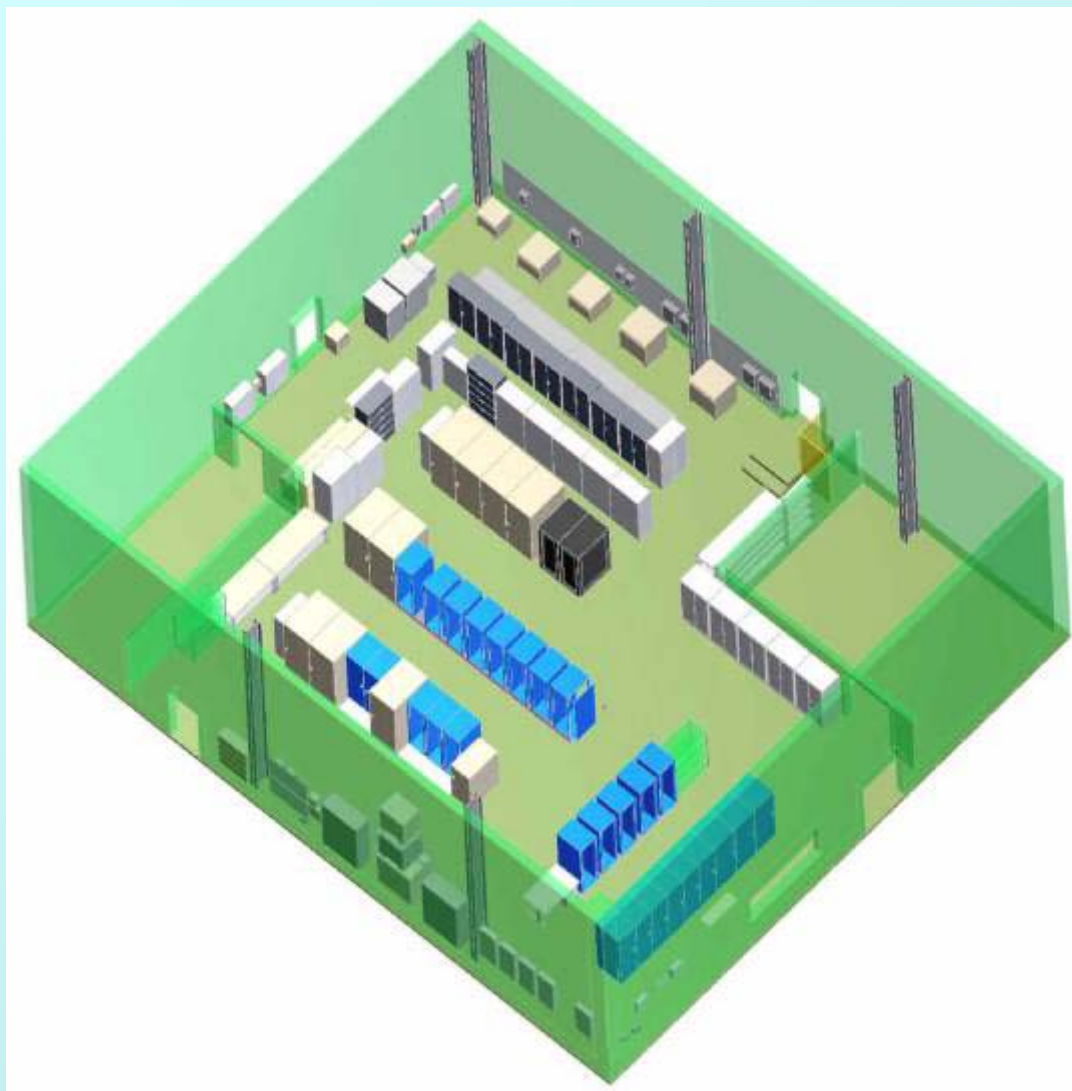
MuTr Decapacitations

Remaining 2008 work: Station 1 South to be done
~ 11/10-11/30 simultaneously with MuTrgr South
and RPC absorber installations. Will require Station
1 scaffolding on south side of CM.



(Note: picture at left is
mirrored image of
scaffolding in station 1
north.)

Rack Room Reorganization



Fairly accurate model
of the current rack
room configuration

Plumbing, HVAC and
cable management,
items in machine shop
and items in laser
room omitted

1. Training status has been updated (see email).

Please note: Aerial -P due for several
Rad worker not needed until run
Added lead course (1-time, web) for mech guys

2. Performance Appraisals

3. Info on BNL website concerning bedbugs:



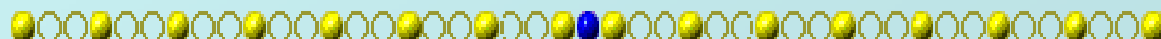
<http://www.bnl.gov/esh/shsd/PDF/Bedbugs%20ESH%20Cord%20Mtg%20%20091708.pdf>

Where To Find PHENIX Engineering Info

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Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:



http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm